

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA2004/001498

## A. CLASSIFICATION OF SUBJECT MATTER

IPC<sup>7</sup>: E01H-4/02; F25C-3/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC<sup>7</sup>: E01H-4/00; 4/02; 5/00; 5/04; 5/06; 5/07; A63C-19/00; 19/10; 19/12; F25C-3/02; 5/\*; H01F-7/00; F16B\*; F16M\*  
US Classes: 37/219; 37/196; 37/206; 37/214; 37/253; 37/233; 37/266; 37/271; ECLA: E01H-4/02B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Google

Electronic data base consulted during the international search (name of data base, and, where practicable, search terms used)

Delphion; esp@cenet; USPTO/West; Canadian Patent Database; Patent Abstracts of Japan;

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3917350 A (BRICHER, C.W.) 04 November 1975 (04-11-1975) refer to figures	1
A	CA 1260705 A (ZAMBONI, R.F.) 26 September 1989 (26-09-1989) refer to Figures 2 to 8	1
A	CA 1241193 A (TREMBLAY, L.) 30 August 1988 (30-08-1988) refer to entire document	1
A, P	CA 2389770 A (BUCHKO, J.) 07 December 2003 (07-12-2003) refer to Figures 4 to 6; refer to page 11, lines 3 to 20 and page 12, lines 1 to 7	1 to 3, 18, 19
A, P	CA 2394085 A (BUCHKO, J.) 07 December 2003 (07-12-2003) refer to Figures 3 to 5; refer to claims 1 to 19; refer to pages 9 to 12	1 to 3, 18, 19

Further documents are listed in the continuation of Box C.

Patent family members are listed in annex.

* "A" "E" "L" "O" "P"	Special categories of cited documents document defining the general state of the art which is not considered to be of particular relevance earlier application or patent but published on or after the international filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed	"T" "X" "Y" "&"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family
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Date of the actual completion of the international-type search  
18 November 2004 (18-11-2004)

Date of mailing of the international-type search report  
14 January 2005 (14-01-2005)

Name and mailing address of the ISA/  
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**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.  
**PCT/CA2004/001498**

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
US3917350	04-11-1975	CA1021684 A1 US3917350 A	29-11-1977 04-11-1975
CA1260705	26-09-1989	CA1260705 A1 US4705320 A	26-09-1989 10-11-1987
CA1241193	30-08-1988	CA1241193 A1	30-08-1988
CA2389770	07-12-2003	CA2389770 A1 CA2394085 A1 EP1467609 A1 US2003226344 A1 WO03103374 A1	07-12-2003 07-12-2003 20-10-2004 11-12-2003 18-12-2003
CA2394085	07-12-2003	CA2389770 A1 CA2394085 A1 EP1467609 A1 US2003226344 A1 WO03103374 A1	07-12-2003 07-12-2003 20-10-2004 11-12-2003 18-12-2003